EPC course Outline

All class notes will be uploaded to GitHub.

https://tinyurl.com/epcCourse

- 1. Class 1: Introduction to C.
 - Syntax
 - Variable declaration

```
(int, long long int, __int128, float, double, long double, char)
```

- Variable initialization
- Value assignment
- Showing output
- Basic Operations (+, -, *, /, %)
- pre-increment, post-increment (++x , x++)
- Taking input
- Data Type Conversion
- Set precision
- Spacing / Indentation
- Commenting
- 2. Class 2: Conditions, Operators, In-built Math Functions
 - If-else
 - Nested If-else
 - Logical operators (&&, || , ||)
 - Relational Operators (==, !=, >, <, >=, <=)
 - some in-built math functions sqrt(), pow(), log(), floor(), ceil()

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- 3. Class 3: Loop, Time Complexity
 - while loop
 - · do-while loop
 - for loop
 - nested loop
 - time complexity
- 4. Class 4: Introduction to C++
 - why finally c++ not c
 - key differences between c++ and c
- 5. Class 5: Array, String, Space Complexity
 - array
 - 2D array (matrix)
 - string
 - memory taken by different typo variables

```
(int, long long int, __int128, float, double, long double, char)
```

- space complexity
- 6. Class 6: Function
 - void Function
 - return type Function
 - pass by value
 - pass by reference
- 7. Class 7: Recursion
 - Stack overflow
 - Factorial
 - Fibonacci
- 8. Class 8: Structure

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9. Class 9: Introduction to Problem Solving

- Problem Solving
- Contest (online, onsite)
- Competitive Programming
- Online Judges (codeforces , Atcoder , Codechef , Vjudge and others . . .)
- Test Case
- EOF

Note: Total Course will be run in Dynamic way considering the progress of Level Zero.

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